ICF-SW20

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model

SPECIFICATIONS

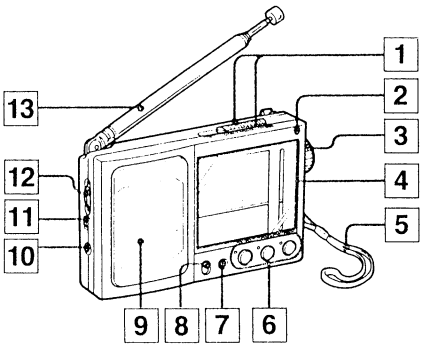
Frequency range	FM: 76 – 108 MHz (US, Canadian, E model) 87.6 – 107.5 MHz (AEP, UK, Italian, Saudi Arabia model) IF: 10.7 MHz SW1: 5.775 - 6.425 MHz SW2: 6.875 - 7.525 MHz SW3: 9.375 - 10.025 MHz SW4: 11.615 - 12.265 MHz SW5: 15.00 - 15.65 MHz SW6: 17.50 - 18.15 MHz SW7: 21.325 - 21.975 MHz 1st IF: 10.7 ± 0.35 MHz 2nd IF: 455 kHz MW: 530 – 1710 kHz (US, Canadian, E model) 531 – 1602 kHz (AEP, UK, Italian Saudi Arabia model) IF: 455 kHz
Antenna	FM/SW: telescopic antenna MW: built-in ferrite bar antenna
Speaker	Approx. 4.4 × 4.4 cm ($1\frac{3}{4} \times 1\frac{3}{4}$ inches) 8 Ω
Power output	100 mW (at 10% harmonic distortion) 200 mW (maximum output)
Output	Earphone jack (minijack)
Power requirements	3 V DC, two R6 (size AA) batteries.
Battery life	Approx. 22 hours with Sony SUM-3 (NS)
Dimensions	Approx. 116.5 × 72.5 × 28 mm (w/h/d) ($4\frac{1}{2} \times 2\frac{7}{8} \times 1\frac{1}{8}$ inches)
Weight	Approx. 203 g (7.2 oz) incl. batteries
Accessories supplied	Earphone (1), Carrying case (1), Short wave guide (1)

Design and specifications subject to change without notice.

Features

- Handy FM/MW/SW1-7 9 band receiver with high sensitivity and selectivity.
- Band spread system enables you to easily tune in SW stations.
- Dual conversion circuit effectively reduces SW bands interference from other SW stations.

Parts Identification



1 SW BAND selector
2 TUNE (tuning indicator)
The indicator lights up when signal is received.
3 TUNING control
4 Dial scales
5 Hand strap
6 Band selectors and indicators (FM/MW/SW)
The unit turned on with the band selectors.
7 OFF (power off) button
8 HOLD switch
Set it to the direction of the arrow:
When listening, to avoid accidental change of the functions.
When not using, to prevent accidental pressing to turn the power on.
9 Speaker
10 Ⓟ (earphone) jack
11 TONE (MUSIC/NEWS) selector
MUSIC: for listening to the music
NEWS: for listening to news, etc.
12 VOLUME control
13 Telescopic antenna

MICROFILM

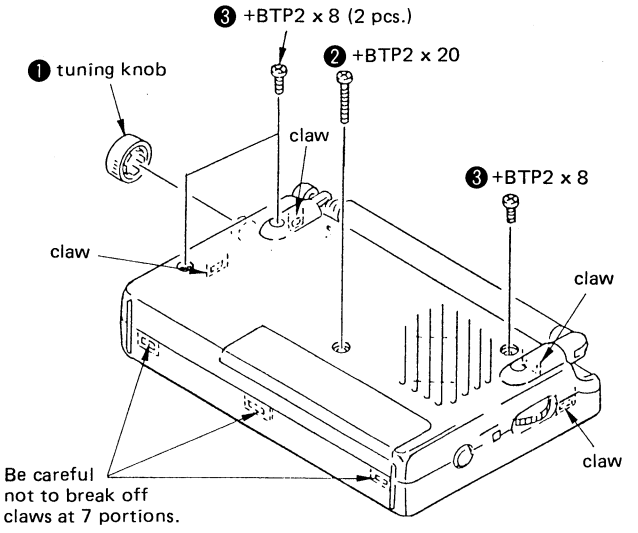
FM/MW/SW1-7
9 BAND RECEIVER

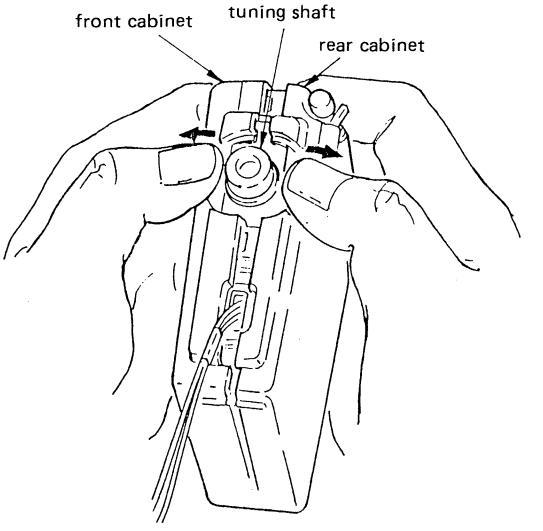
SONY®

SECTION 1
DISASSEMBLY

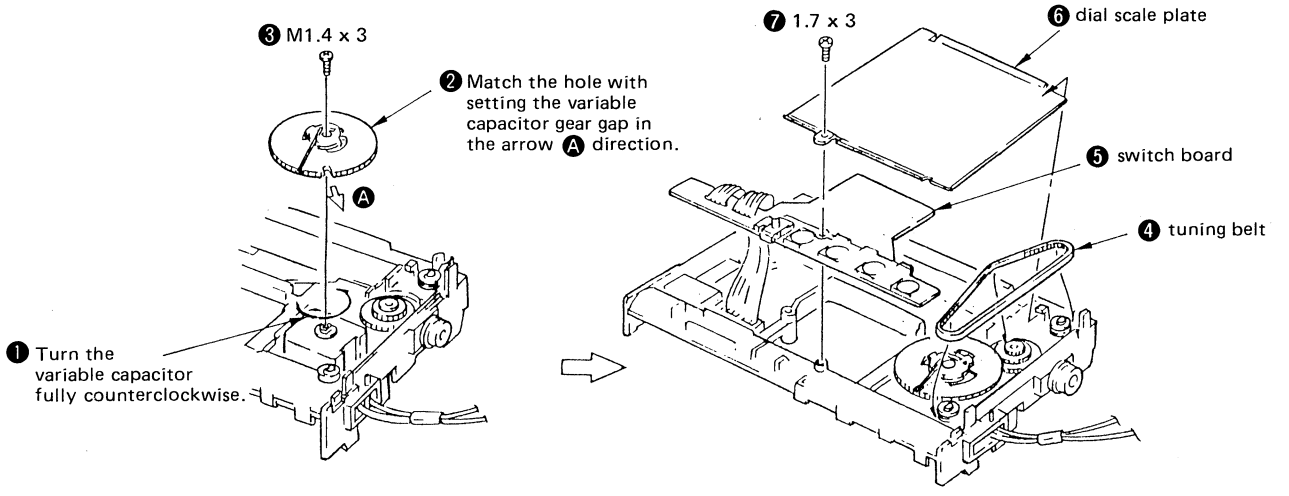
FRONT AND REAR CABINET

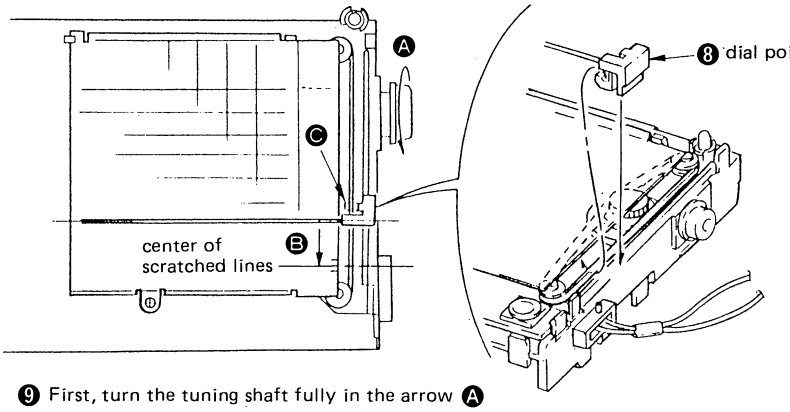
Note: Follow the disassembly procedure in the nemerical order given.





DIAL POINTER SETTING


❸ M1.4 x 3
❷ Match the hole with setting the variable capacitor gear gap in the arrow Ⓐ direction.
Ⓐ
❶ Turn the variable capacitor fully counterclockwise.
❼ 1.7 x 3
❻ dial scale plate
❺ switch board
❹ tuning belt

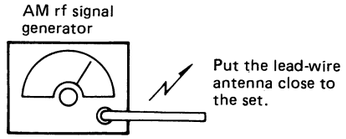


❾ First, turn the tuning shaft fully in the arrow Ⓐ direction. Move only the dial pointer in the arrow Ⓑ direction and set it on the center of the scratched lines on the dial scale plate. Apply suitable locking compound to Ⓒ portion.

SECTION 2
ELECTRICAL ADJUSTMENTS

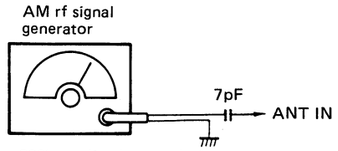
[MW SECTION]

BAND switch: MW


AM rf signal generator
Put the lead-wire antenna close to the set.
30% amplitude modulation by 400 Hz signal
Output level: as low as possible

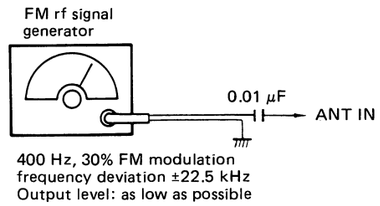
[SW SECTION]

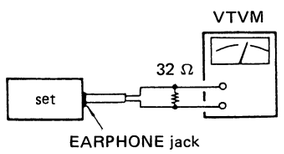
BAND switch: SW



[FM SECTION]

BAND switch: FM





- Repeat the procedures in each adjustment serveral times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.
- SW1 to 7 Tracking Adjustment frequencies are in a line on the scale.
  Therefore, on adjusting, first SW1 6.1 MHz and after adjust SW2 to 7 Tracking without moving the dial pointer.

( ): AEP, UK, Saudi Arabian model

MW IF ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T2	455 kHz

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L17	520 kHz
CT11-3	1,750 kHz (1,650 kHz)

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L14	620 kHz
CT11-4	1,400 kHz

SW IF (1) ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T1	10.6 MHz

SW IF (2) ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T3	455 kHz

SW1 FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T4	5.75 MHz
CT1	6.45 MHz

SW1 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L1	6.1 MHz

SW2 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L2	7.2 MHz

SW3 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L3	9.7 MHz

SW4 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L4	11.94 MHz

SW5 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L5	15.325 MHz

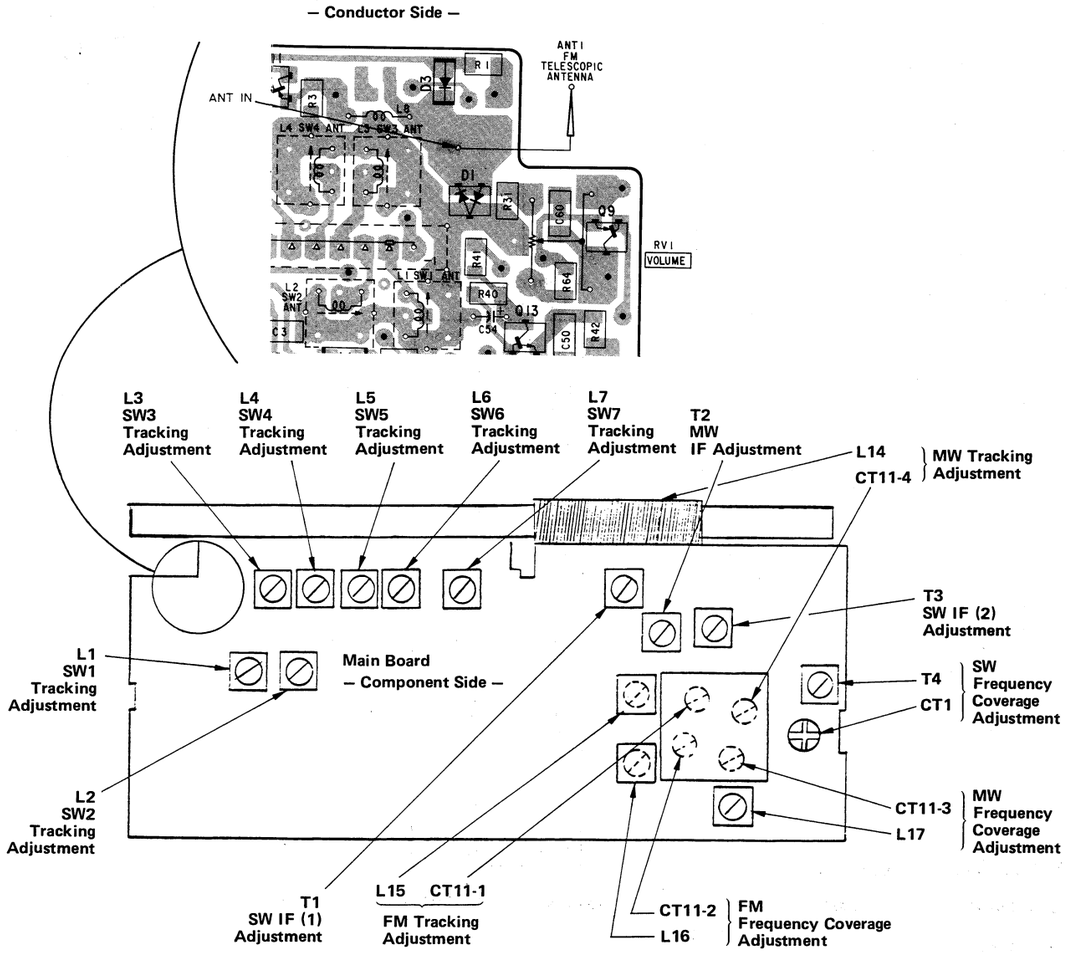
SW6 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L6	17.825 MHz

SW7 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L7	21.65 MHz

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L16	75.0 MHz (87.35 MHz)
CT11-2	109.5 MHz (108.05 MHz)

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L15	80 MHz (87.35 MHz)
CT11-1	104 MHz (108.05 MHz)

[PARTS ARRANGEMENT DIAGRAM FOR ADJUSTMENT]



SECTION 3
DIAGRAMS

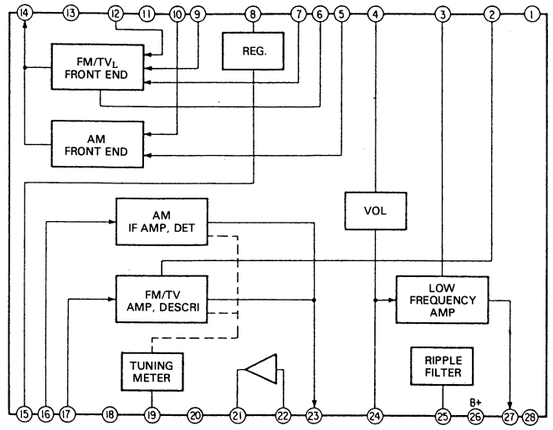
3-1. PRINTED WIRING BOARDS

Note:

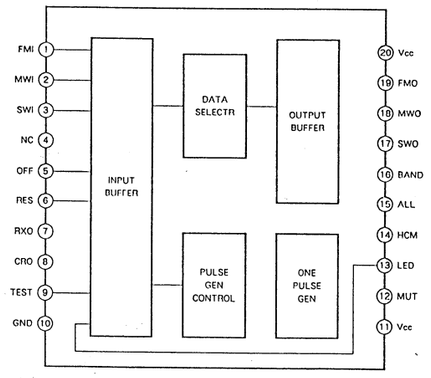
- ● ○—— : parts extracted from the component side.
- ● ●—— : parts extracted from the conductor side.
- ● ■ : parts mounted on the conductor side.
- ● ● : Through hole.
- ● ▒▒ : Pattern on the side which is seen.
- ○ ▒▒ : Pattern of the rear side.

● IC Block Diagrams

· IC1 CX20091



· IC101 CF77392NC

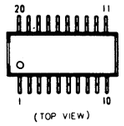


● Semiconductor Location

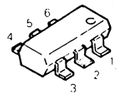
Ref. No.	Location
D1	B-8
D3	A-8
D4	B-7
D5	C-8
D6	B-3
D8	D-8
D9	A-2
D10	C-9
D11	D-7
D101	F-8
D103	F-7
D104	F-6
IC1	C-5
IC101	H-5
Q1	A-7
Q2	A-5
Q3	A-3
Q4	B-5
Q5	B2
Q6	C-7
Q7	C-8
Q8	D-2
Q9	B-9
Q10	D-6
Q11	D-7
Q13	C-9
Q14	D-8

● Semiconductor Lead Layouts

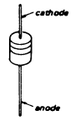
CF-77392NS



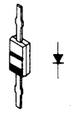
XN4608



1SS119

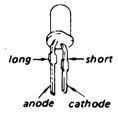


1SS279

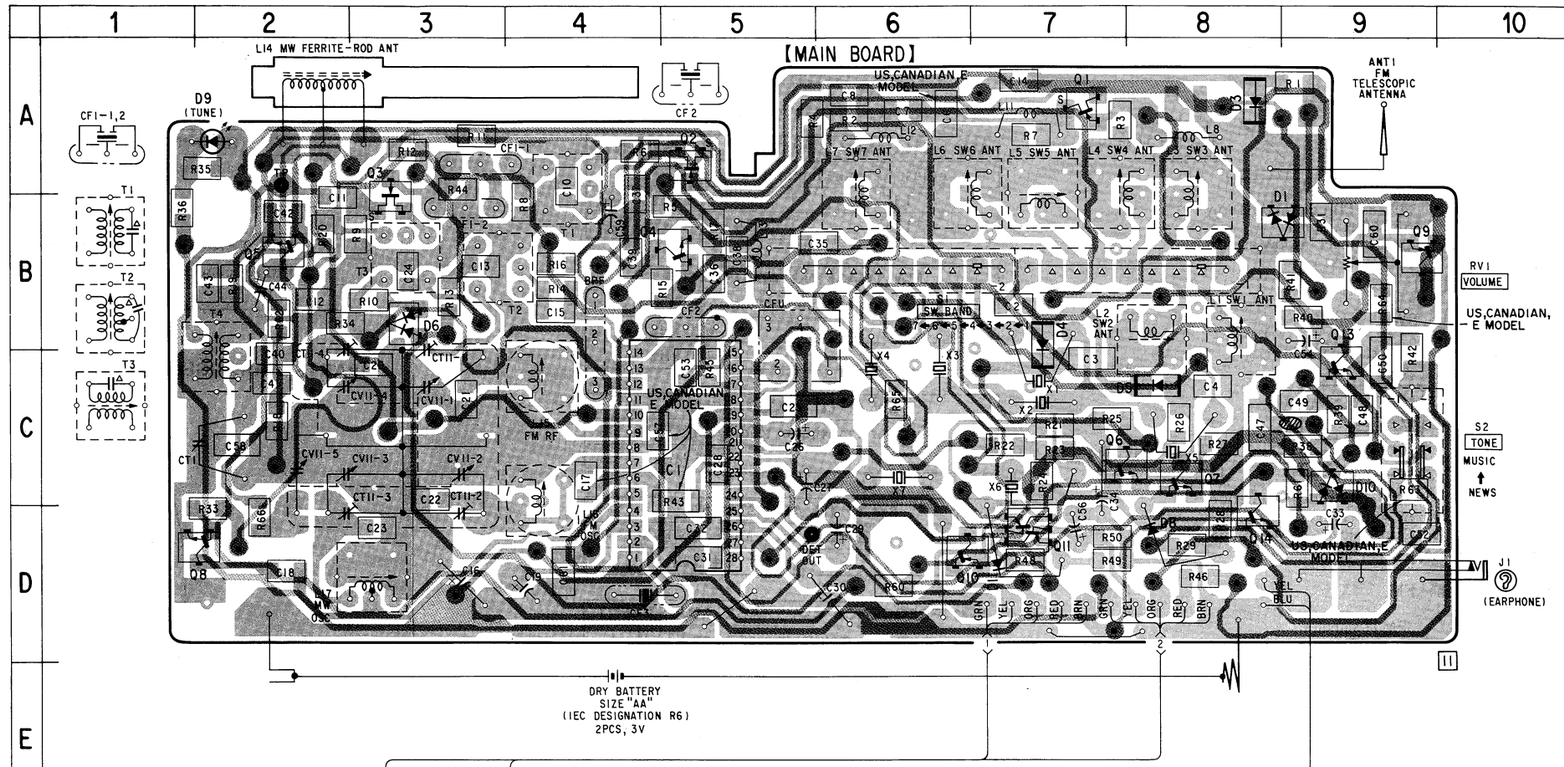


GL1PR111

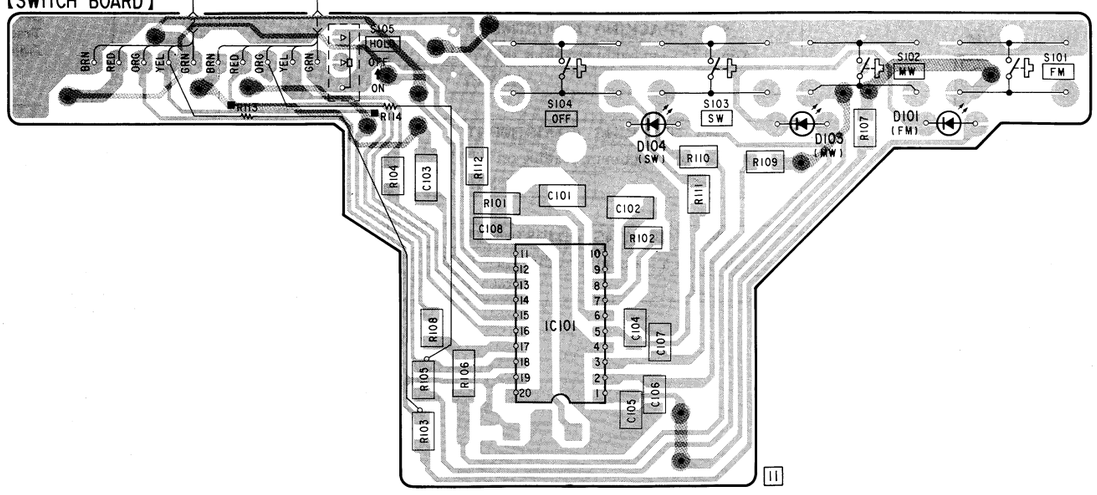
TLR124

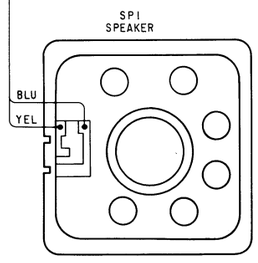


【MAIN BOARD】

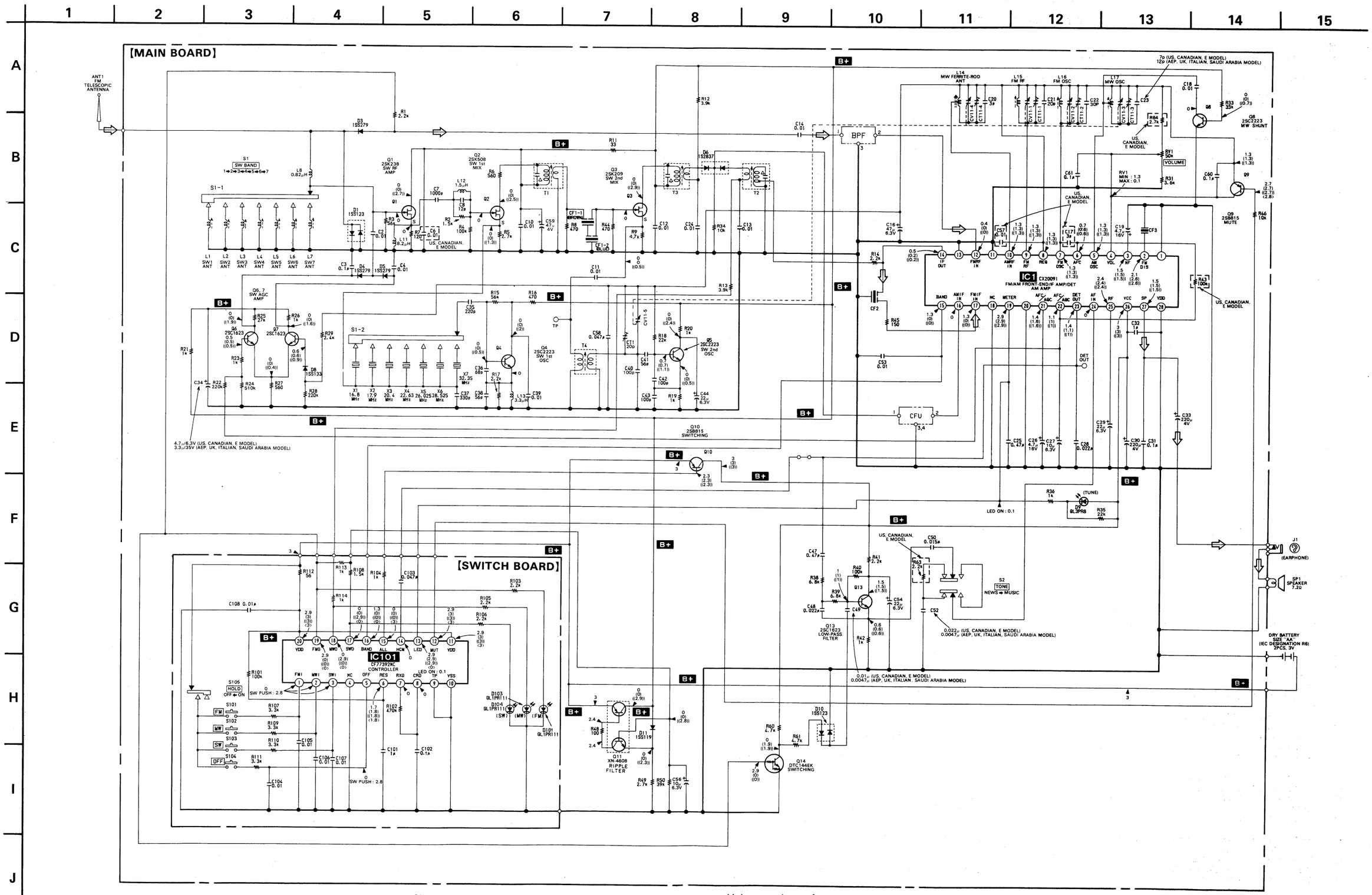


【SWITCH BOARD】





3-2. SCHEMATIC DIAGRAM



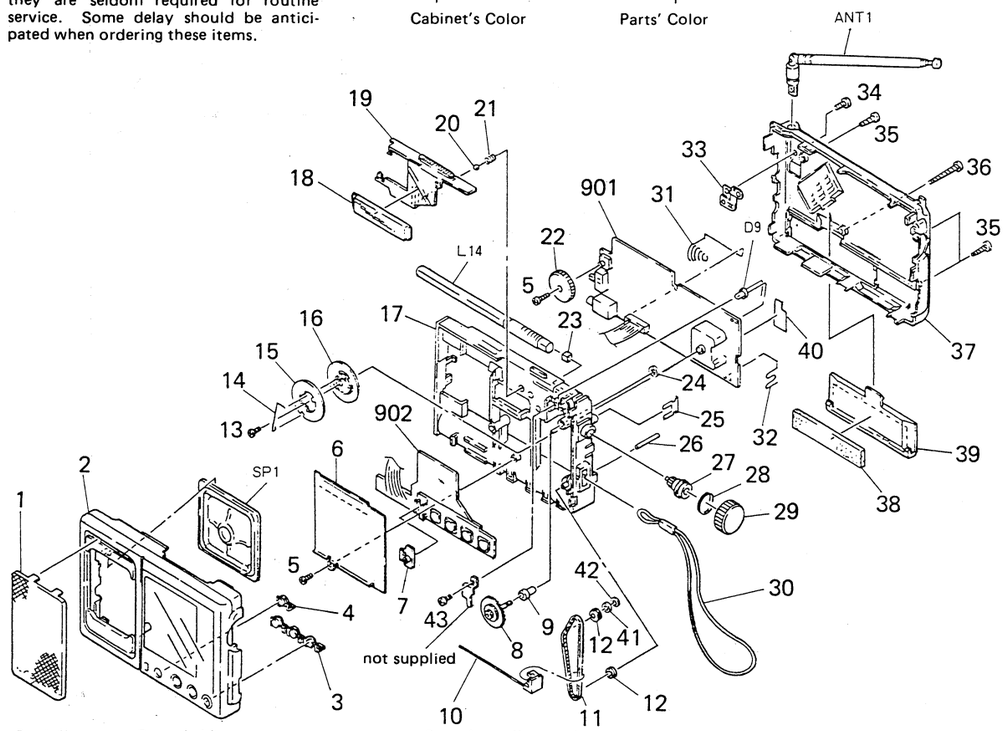
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
  ( ): MW
  (( )): SW
  < >: OFF
- Voltages are taken with a VOM (50 kΩ/V). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

SECTION 4
EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) ... KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color



No.	Part No.	Description	Remarks
1	3-900-140-01	PANEL (SPEAKER)	
2	X-3899-512-1	(US,Canadian,E)...CABINET (FRONT) ASSY	
	X-3899-509-1	(AEP,UK,Italian,Saudi Arabia) ...CABINET (FRONT) ASSY	
3	3-900-136-01	BUTTON, BAND SELECTION	
4	3-900-137-01	BUTTON (OFF)	
5	3-880-990-00	SCREW (1.7X3), FLAT, (+) SPECIAL	
6	3-900-155-11	SCALE, DIAL	
7	3-900-138-01	BUTTON (HOLD)	
8	3-900-143-01	GEAR, MIDWAY	
9	*3-900-154-01	BEARING	
10	3-900-160-01	POINTER	
11	3-900-156-01	BELT (TUNING)	
12	3-900-157-01	PULLEY	
13	3-892-318-00	SCREW, SMALL	
14	3-900-146-01	SPRING, DIAL	
15	3-900-145-01	GEAR (B), TUNING CAPACITOR	
16	3-900-144-01	GEAR (A), DIAL	
17	*3-900-162-01	CHASSIS	
18	3-900-142-01	PANEL, SW BAND INDICATION	
19	3-900-159-01	KNOB (SW)	
20	7-671-113-02	STEAL, BALL 3	
21	3-893-926-01	SPRING, COMPRESSION	
22	3-900-150-01	KNOB, VOL	
23	9-911-845-XX	CUSHION (A)	
24	3-311-815-11	WASHER, POLYETHYLENE	
25	3-900-149-01	RETAINER	
26	3-669-481-04	PIN (DIA. 1X12), PARALLEL	
27	3-900-147-01	SHAFT, TUNING	
28	3-900-151-01	SPRING, RING	
29	3-900-148-01	KNOB, TUNING	
30	3-900-158-01	STRAP, HAND	
31	3-900-152-01	SPRING	
32	3-900-153-01	TERMINAL, BATTERY	
33	3-900-141-01	PLATE, CONTACT, ANTENNA	
34	7-621-259-18	SCREW +P 2.6X3	
35	4-356-741-31	(AEP,UK,Italian,Saudi Arabia) ...SCREW, TAPPING (BIND 2X8)	
	7-685-105-19	(US,Canadian,E) ...SCREW +P 2X8 TYPE2 NON-SLIT	
36	3-320-919-11	(US,Canadian,E).....SCREW (2X20)	
	4-356-741-41	(AEP,UK,Italian,Saudi Arabia) ...SCREW, TAPPING (BIND 2X20)	
37	3-900-161-01	CABINET (REAR)	
38	9-911-815-01	CUSHION (A)	
39	3-889-802-00	LID, BATTERY CASE	
40	X-3899-510-1	(US,Canadian,E)...PLATE (A) ASSY, SHIELD	
41	7-623-924-01	WASHER, POLYETHYLENE	
42	3-701-441-01	WASHER, POLYETHYLENE	
43	3-895-823-01	SCREW, TAPPING	
901	*A-3660-851-A	(AEP,UK,Italian,Saudi Arabia) ...MOUNTED PCB, MAIN	
	*A-3660-856-A	(US,Canadian,E)...MOUNTED PCB, MAIN	
902	*1-630-133-11	PC BOARD, SWITCH	
ANT1	1-501-432-11	ANTENNA, TELESCOPIC	
D9	8-719-812-41	LED TLR124	
L14	1-402-434-11	ANTENNA, FERRITE-ROD (MW)	
SP1	1-544-156-11	SPEAKER	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

Ref.No.	Part No.	Description		
901	*A-3660-851-A	(AEP,UK,Italian,Saudi Arabia) ...MOUNTED PCB, MAIN		
	*A-3660-856-A	(US,Canadian,E)...MOUNTED PCB, MAIN		
902	*1-630-133-11	PC BOARD, SWITCH		
ANT1	1-501-432-11	ANTENNA, TELESCOPIC		
BPF	1-235-170-00	(US,Canadian,E)...FILTER, BAND PASS		
BPF	1-235-171-00	(AEP,UK,Italian,Saudi Arabia) ...FILTER, BAND PASS		
C2	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C3	1-163-077-00	CERAMIC CHIP 0.1MF		50V
C4	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C6	1-163-059-00	(US,Canadian,E) ...CERAMIC CHIP 0.01MF		50V
C7	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C8	1-163-095-00	CERAMIC CHIP 12PF	5%	50V
C10	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C11	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C12	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C13	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C14	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C16	1-126-154-11	ELECT 47MF	20%	6.3V
C17	1-163-086-00	(US,Canadian,E) ...CERAMIC CHIP 3PF	0.25PF	50V
C18	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C19	1-126-094-11	ELECT 4.7MF	20%	16V
C20	1-163-086-00	CERAMIC CHIP 3PF	0.25PF	50V
C21	1-163-100-00	CERAMIC CHIP 20PF	5%	50V
C22	1-163-104-00	CERAMIC CHIP 30PF	5%	50V
C23	1-163-090-00	(US,Canadian,E) ...CERAMIC CHIP 7PF	0.25PF	50V
C23	1-163-095-00	(AEP,UK,Italian,Saudi Arabia) ...CERAMIC CHIP 12PF	5%	50V
C24	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C25	1-162-637-11	CERAMIC CHIP 0.47MF		16V
C26	1-126-094-11	ELECT 4.7MF	20%	16V
C27	1-126-157-11	ELECT 10MF	20%	6.3V
C28	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V
C29	1-126-153-11	ELECT 22MF	20%	6.3V
C30	1-124-434-00	ELECT 220MF	20%	4V
C31	1-163-077-00	CERAMIC CHIP 0.1MF		50V
C32	1-162-638-11	CERAMIC CHIP 1MF		16V
C33	1-124-434-00	ELECT 220MF	20%	4V
C34	1-126-154-11	(US,Canadian,E) ...ELECT 47MF	20%	6.3V
C34	1-126-162-11	(AEP,UK,Italian,Saudi Arabia) ...ELECT 3.3MF	20%	35V
C35	1-163-125-00	CERAMIC CHIP 220PF	10%	50V
C36	1-163-113-00	CERAMIC CHIP 68PF	5%	50V
C37	1-163-129-00	CERAMIC CHIP 330PF	10%	50V
C38	1-163-111-00	CERAMIC CHIP 56PF	5%	50V
C39	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C40	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C41	1-163-111-00	CERAMIC CHIP 56PF	5%	50V
C42	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C43	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C44	1-126-153-11	ELECT 22MF	20%	6.3V
C47	1-162-637-11	CERAMIC CHIP 0.47MF		16V
C48	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V
C49	1-163-017-00	(AEP,UK,Itarian,Saudi Arabia) ...CERAMIC CHIP 0.0047MF	10%	50V
C49	1-163-021-00	(US,Canadian,E) ...CERAMIC CHIP 0.01MF	10%	50V
C50	1-163-059-00	CERAMIC CHIP 0.015MF		50V
C52	1-163-037-11	(US,Canadian,E) ...CERAMIC CHIP 0.022MF	10%	25V
C52	1-163-017-00	(AEP,UK,Itarian,Saudi Arabia) ...CERAMIC CHIP 0.0047MF	10%	50V
C53	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C54	1-126-153-11	ELECT 22MF	20%	6.3V
C56	1-126-157-11	ELECT 10MF	20%	6.3V
C57	1-163-021-00	(US,Canadian,E) ...CERAMIC CHIP 0.01MF	10%	50V
C58	1-163-075-00	CERAMIC CHIP 0.047MF	10%	25V
C59	1-124-432-00	ELECT 47MF	20%	4V
C60	1-163-077-00	CERAMIC CHIP 0.1MF		50V
C61	1-163-077-00	CERAMIC CHIP 0.1MF		50V
C101	1-162-638-11	CERAMIC CHIP 1MF		16V
C102	1-163-077-00	CERAMIC CHIP 0.1MF		50V
C103	1-163-075-00	CERAMIC CHIP 0.047MF		50V
C104	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C105	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C106	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C107	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C108	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
CF1	1-577-047-11	FILTER, CERAMIC		
CF2	1-567-097-61	FILTER, CERAMIC		
CF3	1-567-097-61	FILTER, CERAMIC		
CT1	1-141-227-00	CAP, CERAMIC TRIMMER		
D1	8-719-800-76	DIODE 1SS226		
D3	8-719-123-79	DIODE 1SS279		
D4	8-719-123-79	DIODE 1SS279		

Ref.No.	Part No.	Description
D5	8-719-123-79	DIODE 1SS279
D6	8-719-100-05	DIODE 1S2837
D8	8-719-911-19	DIODE 1SS119
D9	8-719-812-41	LED TLR124
D10	8-719-800-76	DIODE 1SS226
D11	8-719-911-19	DIODE 1SS119
D101	8-719-975-81	LED GL1PR111
D103	8-719-975-81	LED GL1PR111
D104	8-719-975-81	LED GL1PR111
IC1	8-752-009-10	IC CX20091
IC101	8-759-979-91	IC CF-77392NS
J1	1-507-562-00	JACK (EARPHONE)
L1	1-402-334-11	COIL (ANT)
L2	1-402-332-11	COIL (ANT)
L3	1-402-432-11	COIL (ANT)
L4	1-402-331-11	COIL (ANT)
L5	1-406-261-11	COIL (OSC)
L6	1-402-433-11	COIL (ANT)
L7	1-402-330-11	COIL (ANT)
L8	1-410-360-11	INDUCTOR 0.82UH
L11	1-408-408-00	INDUCTOR 8.2UH
L12	1-410-499-41	INDUCTOR 1.5UH
L13	1-410-322-11	INDUCTOR 3.3UH
L15	1-459-982-11	COIL (WITH CORE)
L16	1-459-979-11	(AEP,UK,Italian,Saudi Arabia) ...COIL (WITH CORE)
L16	1-459-981-11	(US,Canadian,E)...COIL (WITH CORE)
L17	1-406-255-11	COIL (OSC)
Q1	8-729-123-86	TRANSISTOR 2SK238
Q2	8-729-116-64	TRANSISTOR 2SK508-K51
Q3	8-729-220-93	TRANSISTOR 2SK209G
Q4	8-729-102-07	TRANSISTOR 2SC2223-F13
Q5	8-729-102-07	TRANSISTOR 2SC2223-F13
Q6	8-729-159-64	TRANSISTOR 2SD596
Q7	8-729-159-64	TRANSISTOR 2SD596
Q8	8-729-102-07	TRANSISTOR 2SC2223-F13
Q9	8-729-800-68	TRANSISTOR 2SB815
Q10	8-729-800-68	TRANSISTOR 2SB815
Q11	8-729-402-16	TRANSISTOR XN4608
Q13	8-729-100-66	TRANSISTOR 2SC1623
Q14	8-729-901-01	TRANSISTOR DTC144EK
R1	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R2	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W
R3	1-216-091-00	METAL GLAZE 56K 5% 1/10W

Ref.No.	Part No.	Description
R4	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R5	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W
R6	1-216-043-00	METAL GLAZE 560 5% 1/10W
R7	1-216-027-00	METAL GLAZE 120 5% 1/10W
R8	1-216-041-00	METAL GLAZE 470 5% 1/10W
R9	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R10	1-216-295-00	METAL GLAZE 0 5% 1/10W
R11	1-216-013-00	METAL GLAZE 33 5% 1/10W
R12	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W
R13	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W
R14	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R15	1-216-091-00	METAL GLAZE 56K 5% 1/10W
R16	1-216-041-00	METAL GLAZE 470 5% 1/10W
R17	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R18	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R19	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R20	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R21	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R22	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R23	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R24	1-216-114-00	METAL GLAZE 510K 5% 1/10W
R25	1-216-083-00	METAL GLAZE 27K 5% 1/10W
R26	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R27	1-216-043-00	METAL GLAZE 560 5% 1/10W
R28	1-216-105-00	METAL GLAZE 220K 5% 1/10W
R29	1-216-058-00	METAL GLAZE 2.4K 5% 1/10W
R31	1-216-062-00	METAL GLAZE 3.6K 5% 1/10W
R33	1-216-085-00	METAL GLAZE 33K 5% 1/10W
R34	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R35	1-216-081-00	METAL GLAZE 22K 5% 1/10W
R36	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R38	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W
R39	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W
R40	1-216-097-00	METAL GLAZE 100K 5% 1/10W
R41	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R42	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R43	1-216-246-00	(US,Canadian,E) ...METAL GLAZE 100K 5% 1/8W
R44	1-216-041-00	METAL GLAZE 470 5% 1/10W
R45	1-216-029-00	METAL GLAZE 150 5% 1/10W
R46	1-216-073-00	METAL GLAZE 10K 5% 1/10W
R48	1-216-025-00	METAL GLAZE 100 5% 1/10W
R49	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W
R50	1-216-748-11	METAL GLAZE 39K 5% 1/10W
R60	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W

Ref.No.	Part No.	Description
R61	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R62	1-216-295-00	METAL GLAZE 0 5% 1/10W
R63	1-216-057-00	(US,Canadian,E) ...METAL GLAZE 2.2K 5% 1/10W
R64	1-216-059-00	(US,Canadian,E) ...METAL GLAZE 2.7K 5% 1/10W
R65	1-216-295-00	METAL GLAZE 0 5% 1/10W
R66	1-216-295-00	METAL GLAZE 0 5% 1/10W
R101	1-216-246-00	METAL GLAZE 100K 5% 1/8W
R102	1-216-113-00	METAL GLAZE 470K 5% 1/10W
R103	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R104	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R105	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W
R106	1-216-206-00	METAL GLAZE 2.2K 5% 1/8W
R107	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R108	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W
R109	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R110	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R111	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W
R112	1-216-019-00	METAL GLAZE 56 5% 1/10W
R113	1-247-713-11	CARBON 1K 5% 1/4W
R114	1-249-417-11	CARBON 1K 5% 1/4W
RV1	1-238-562-11	RES, VAR, CARBON 50K
S1	1-554-979-11	SWITCH, SLIDE (SW BAND)
S2	1-554-123-00	SWITCH, SLIDE (TONE)
S101	1-554-978-11	SWITCH, KEY BOARD (FM)
S102	1-554-978-11	SWITCH, KEY BOARD (MW)
S103	1-554-978-11	SWITCH, KEY BOARD (SW)
S104	1-554-978-11	SWITCH, KEY BOARD (OFF)
S105	1-570-675-11	SWITCH, SLIDE (HOLD)
SP1	1-544-156-11	SPEAKER
T1	1-404-764-11	TRANSFORMER, IF
T2	1-404-362-61	TRANSFORMER, IF
T3	1-404-362-61	TRANSFORMER, IF
T4	1-459-980-11	COIL
X1	1-577-447-11	VIBRATOR, CERAMIC 16.8MHz
X2	1-577-448-11	VIBRATOR, CERAMIC 17.9MHz
X3	1-577-449-11	VIBRATOR, CERAMIC 20.4MHz
X4	1-577-445-11	VIBRATOR, CERAMIC 22.63MHz
X5	1-577-453-11	VIBRATOR, CERAMIC 26.025MHz
X6	1-577-454-11	VIBRATOR, CERAMIC 28.525MHz
X7	1-577-452-11	VIBRATOR, CERAMIC 32.35MHz

ACCESSORY & PACKING MATERIAL

1-504-059-11	MAGNETIC EARPHONE (ME-20H)
3-703-264-11	LABEL (B), SERIAL NO
3-750-259-21	MANUAL, INSTRUCTION
3-893-940-05	(Saudi Arabia).....GUIDE, SHORT WAVE
3-893-940-15	(US,Canadian,E,AEP,UK,Italian) ...GUIDE, SHORT WAVE
*3-900-132-01	INDIVIDUAL CARTON
3-900-168-01	CARRYING CASE
*3-900-133-01	CUSHION

9-953-624-12
(Including 9-953-624-91)
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English
92K0503-1 (2)
Printed in Japan
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